

UNIVERSITY OF WISCONSIN – STOUT
M.S. in MANUFACTURING ENGINEERING PROGRAM PLAN SHEET (Revision 5/2008)

Name: _____ ID#: _____ Start Date: _____

		<u>Credits</u>	<u>Completion Term</u>	<u>Grade</u>
Core Courses (12 credits required)				
INMGT-700	Organizational Research Methods	3	_____	___
INMGT-765	Program Management	3	_____	___
MFGE-735	Field Problem in Manufacturing Engineering	3	_____	___
INMGT-640	Lean Enterprises or	3	_____	___
Lean Enterprises Seminar Series (first six courses required)				
CTEM-701	Principles of Lean Manufacturing	0.5	_____	___
CTEM-702	Value Stream Mapping (VSM)	0.5	_____	___
CTEM-703	Principles of Cellular/Flow Manufacturing	0.5	_____	___
CTEM-704	The 5S System	0.5	_____	___
CTEM-705	Quick Changeover/Setup Reduction	0.5	_____	___
CTEM-706	Total Productive Maintenance	0.5	_____	___
CTEM-707	Value Stream Mgmt./Project Planning (optional for Certificate)	(0.5)	_____	___
Core Management Component (6 to 9 credits required)				
BUACTION-610	Finance and Cost Analysis	3	_____	___
BUMGT-635	Supply Chain Management in Product Development	3	_____	___
INMGT-520	Quality Tools	3	_____	___
INMGT-525	Quality Management	3	_____	___
INMGT-600 or	Organizational Leadership or		_____	___
INMGT-616 or	People Process Culture or	3	_____	___
INMGT-750	Organizational Development		_____	___
INMGT-610	Six Sigma	3	_____	___
INMGT-705	Enterprise Resource Planning	3	_____	___
RC-581 or	Occupational Safety/Loss Control or		_____	___
RC-587	Human Factors Engineering	3	_____	___
Depth Area (9 to 12 credits required, minimum 6 credits in one area)				
1) Manufacturing Competitiveness				
INMGT-625	Quality Improvement Through Planned Experimentation	3	_____	___
INMGT-745 or	Advanced Manufacturing Systems Simulation	3	_____	___
MFGE-640	Manufacturing Systems Design and Simulation	3	_____	___
MFGE-665	Reliability Engineering	3	_____	___
SUST-730	Sustainable Futures	3	_____	___
2) Engineering Materials and Processes				
MFGE-753	Polymer Engineering	3	_____	___
MFGE-771	Emerging Manufacturing Materials	3	_____	___
MFGE-775	Emerging Manufacturing Processes	3	_____	___
3) Mechanical Design				
CADD-721	Surface Modeling	3	_____	___
MFGE-723	Finite Element Methods and Projects	3	_____	___
MECH-726	Advanced Mechanics of Materials	3	_____	___
MECH-729	Product Development and Design	3	_____	___
4) Automation and Control				
MFGE-710	Classical Control Theory w/Applications	3	_____	___
MFGE-714	Robot Theory with Applications	3	_____	___
MFGE-719	Integrated Systems and Automation	3	_____	___

TOTAL CREDITS _____

- Program Complete – pending IP completion(s)
- Minimum **30** credits
- 15** credits at 700-level or above
- Maximum of **10** transfer credits
- Coursework all taken within 7-year limit

Approval: _____
Program Director Date